

PTO's Future Electronic Workplace

October 16, 1997

Introduction

- PTO's Future Electronic Workplace
 - Conversion of paper applications to electronic format
 - Electronic filing of patent applications
 - Electronic communication with applicants
 - Electronic processing of patent applications

Introduction (cont.)

- Describe future PTO systems
 - Near-term initiatives to convert paper to electronic format
 - Longer-term initiatives for electronic filing and electronic processing of applications through the Distributed Object Computation Testbed (DOCT)

First Step

- Paper documents will always be accepted
- Convert paper applications to electronic format
- Patent Image Capture System (PICS) operational in April 1997
- Electronic communication with applicant through Internet e-mail currently available

Next Steps

- Create intelligent documents from scanned images
 - Capture bibliographic data - 1998
 - Provide receipt notification over the Internet - 1998
 - Perform automated initial classification and security screening - 1998
 - Capture follow-on applicant papers and office actions - 2000
- Conduct Patent Reengineering Prototypes (1999)
 - Electronic filing
 - Electronic processing of applications

Next Steps (cont.)

- Begin electronic filing of patent applications - 2002
- Electronic workplace deployed to one Industry Sector - 2002
- PTO electronic workplace achieved -2003

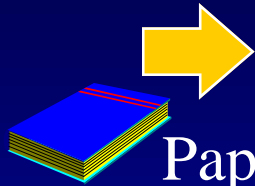
Briefing Structure

- Walk through the basic functions of filing and application management in an electronic environment
- Show how research will be leveraged to support PTO's future electronic workplace
- Describe near and longer-term initiatives

Paper Applications



Applicant

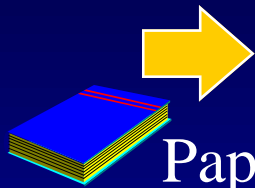


Paper
Application

Conversion of Paper



Applicant



Paper
Application

Capture Page
Images

OCR Text

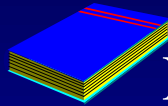
Capture
Document
Information

Transform to
Manageable
Document

Electronic Management



Applicant



Paper
Application

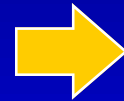
Capture Page
Images

OCR Text

Capture
Document
Information

Transform to
Manageable
Document

Electronic
Pre-Exam



Electronic Examination

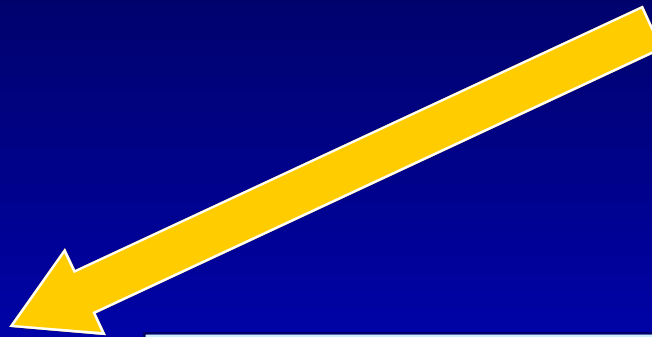
Search

Claims

Tools

Document
Management

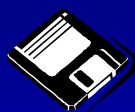
Workflow
Management



Electronic Filing

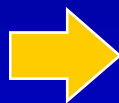


Applicant

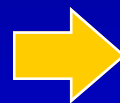


Electronic
Application

Electronic
Mailroom



Electronic
Pre-Exam



Electronic Examination

Search

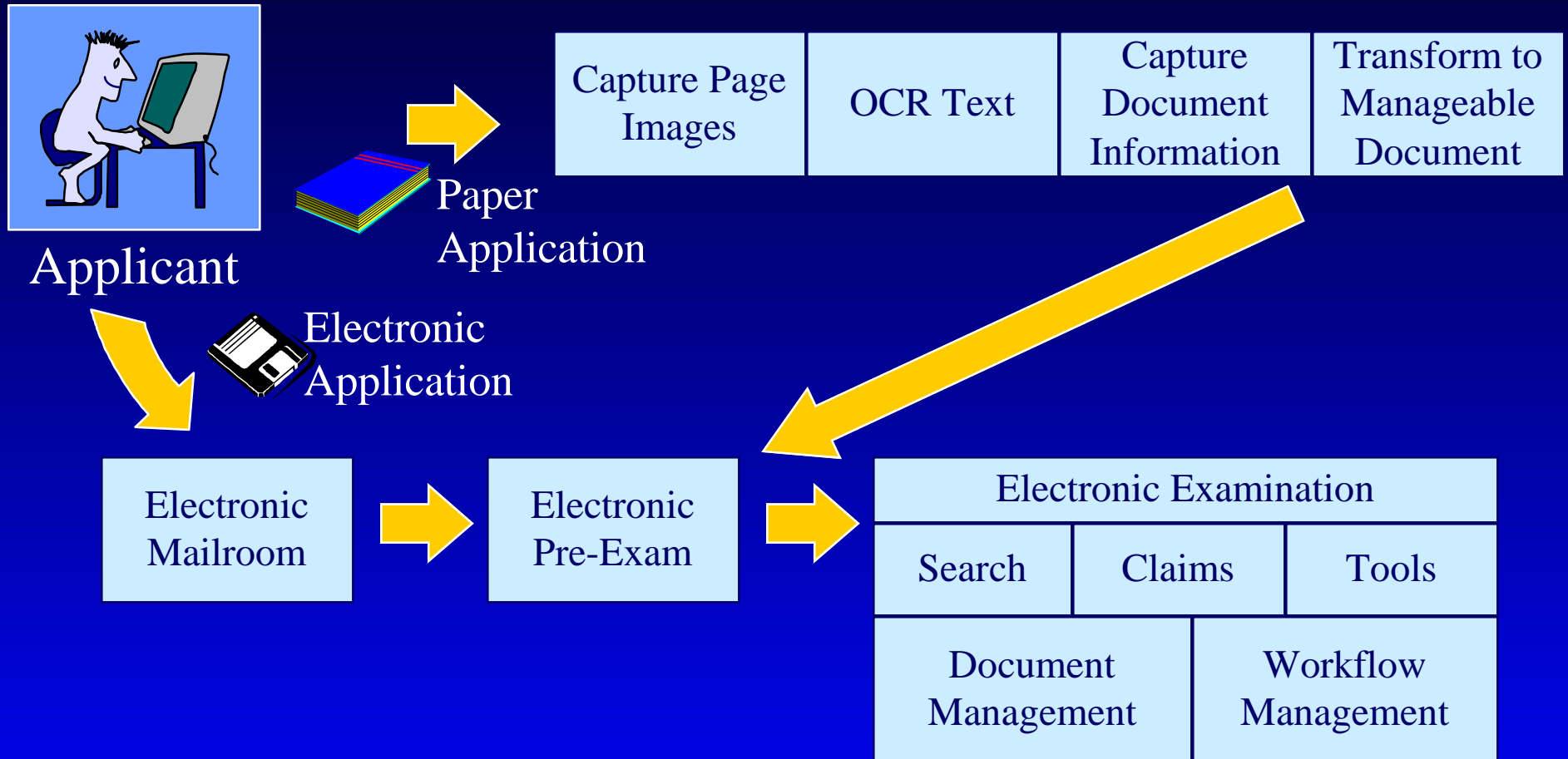
Claims

Tools

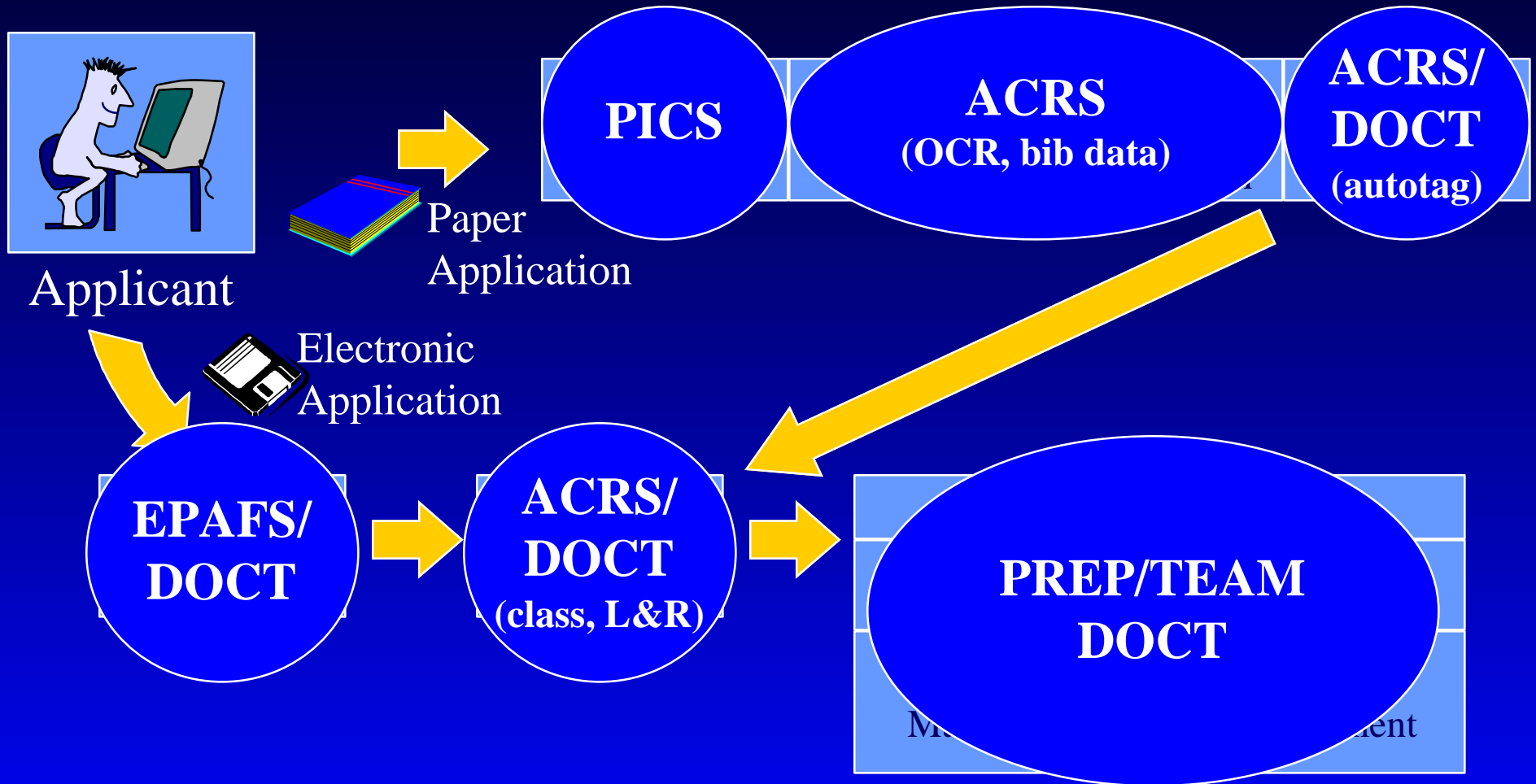
Document
Management

Workflow
Management

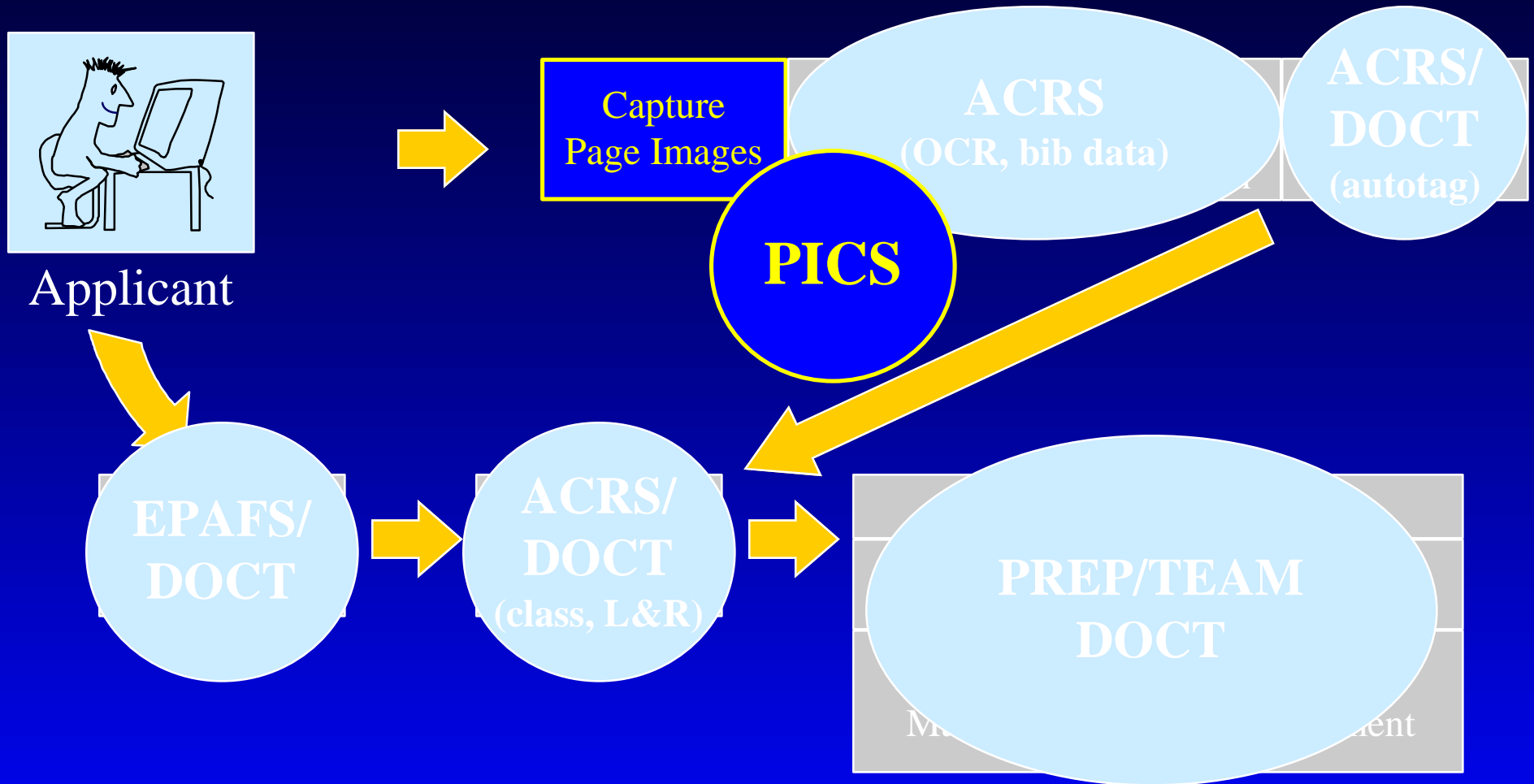
Fully Electronic Patent Process



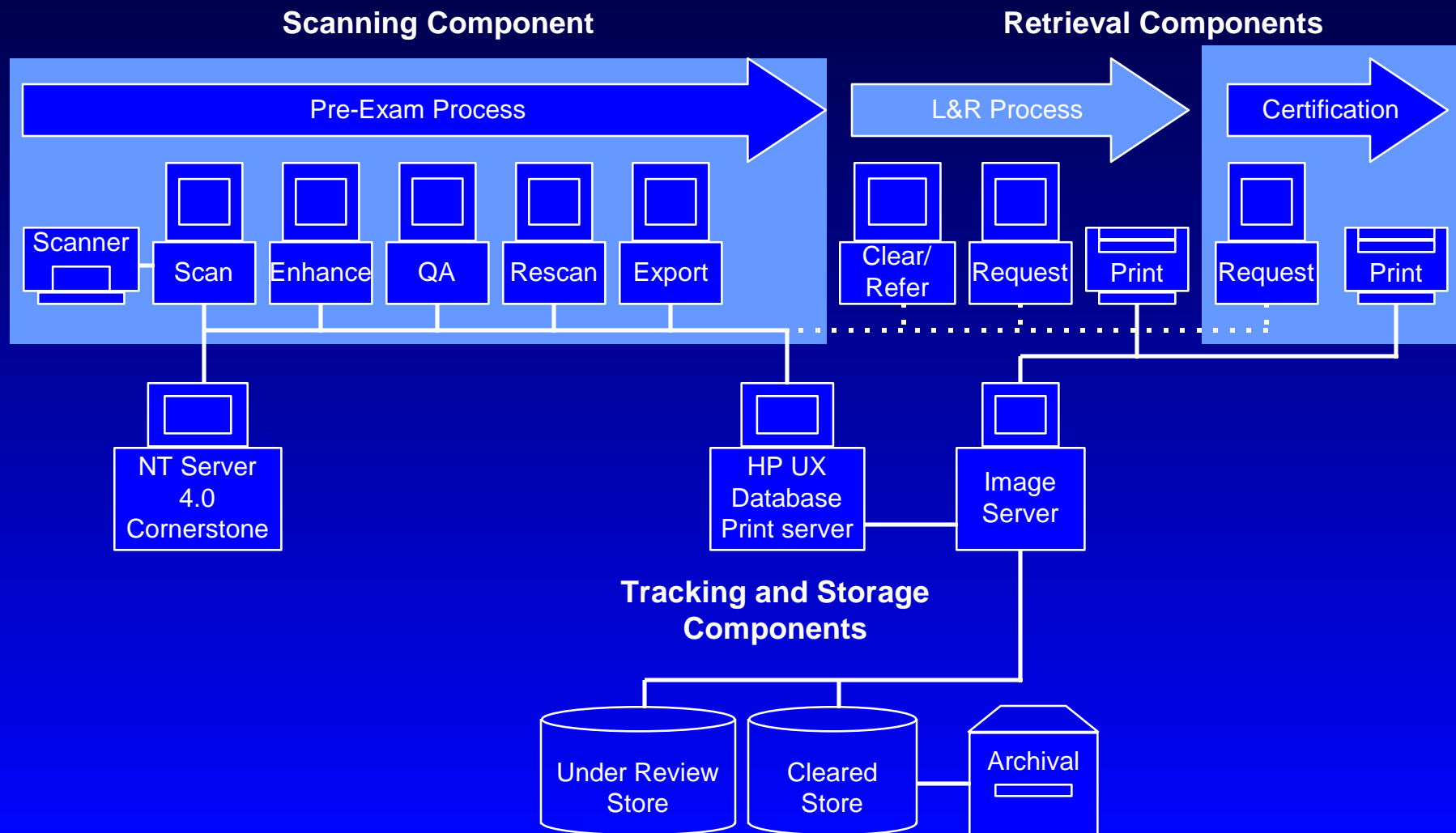
Implementation



Patent Image Capture System (PICS)

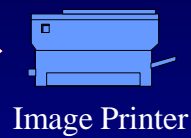


PICS Design

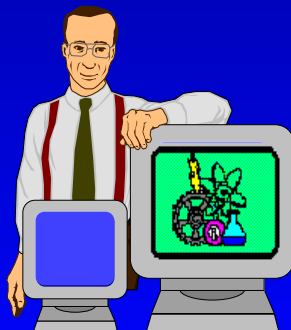


PICS Operation

Certification



Applicant



License & Review



Cleared

Under Review

Export

Rescan

QA

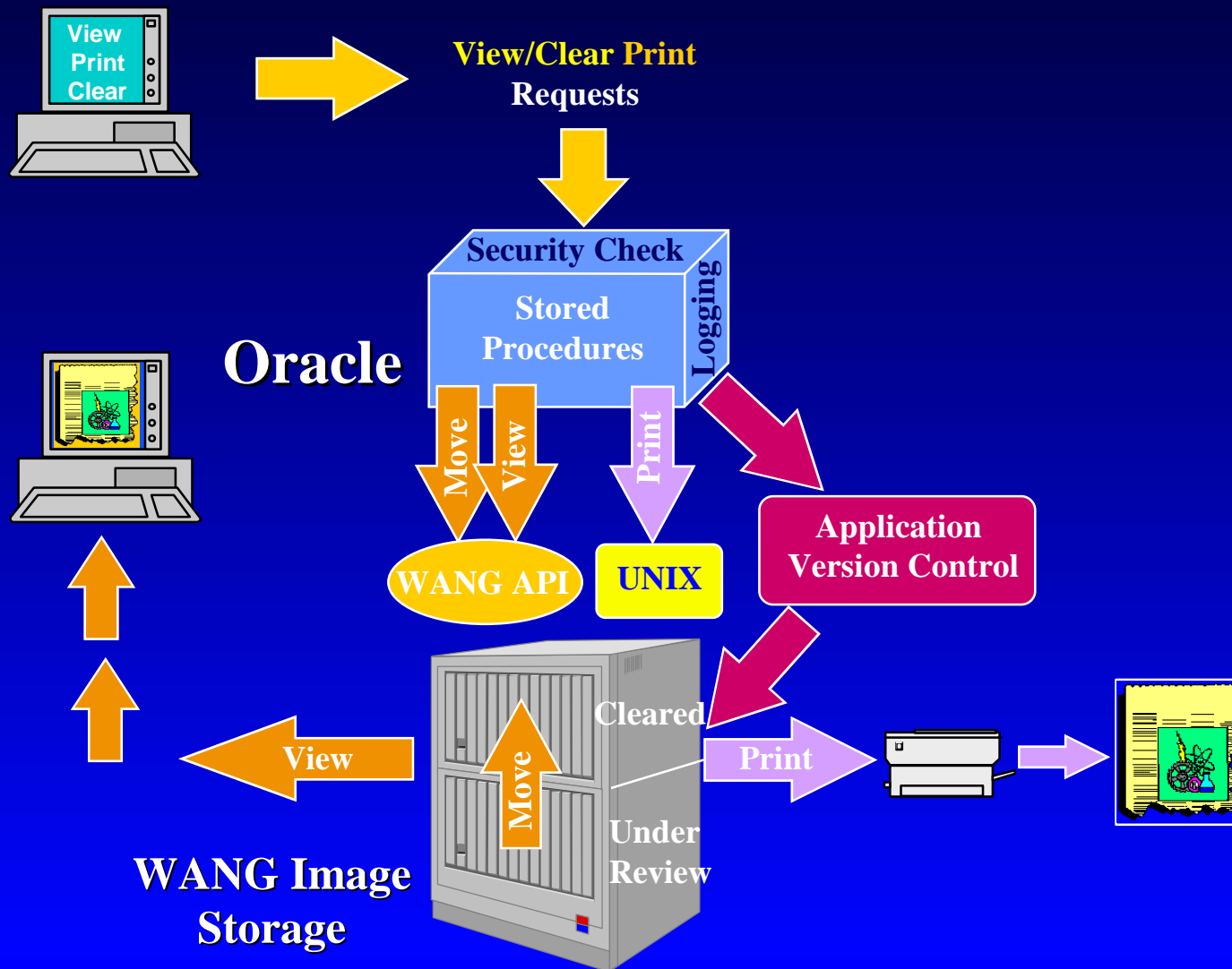
Enhance

Hi Capacity Scanner



Pre-Exam

PICS Security



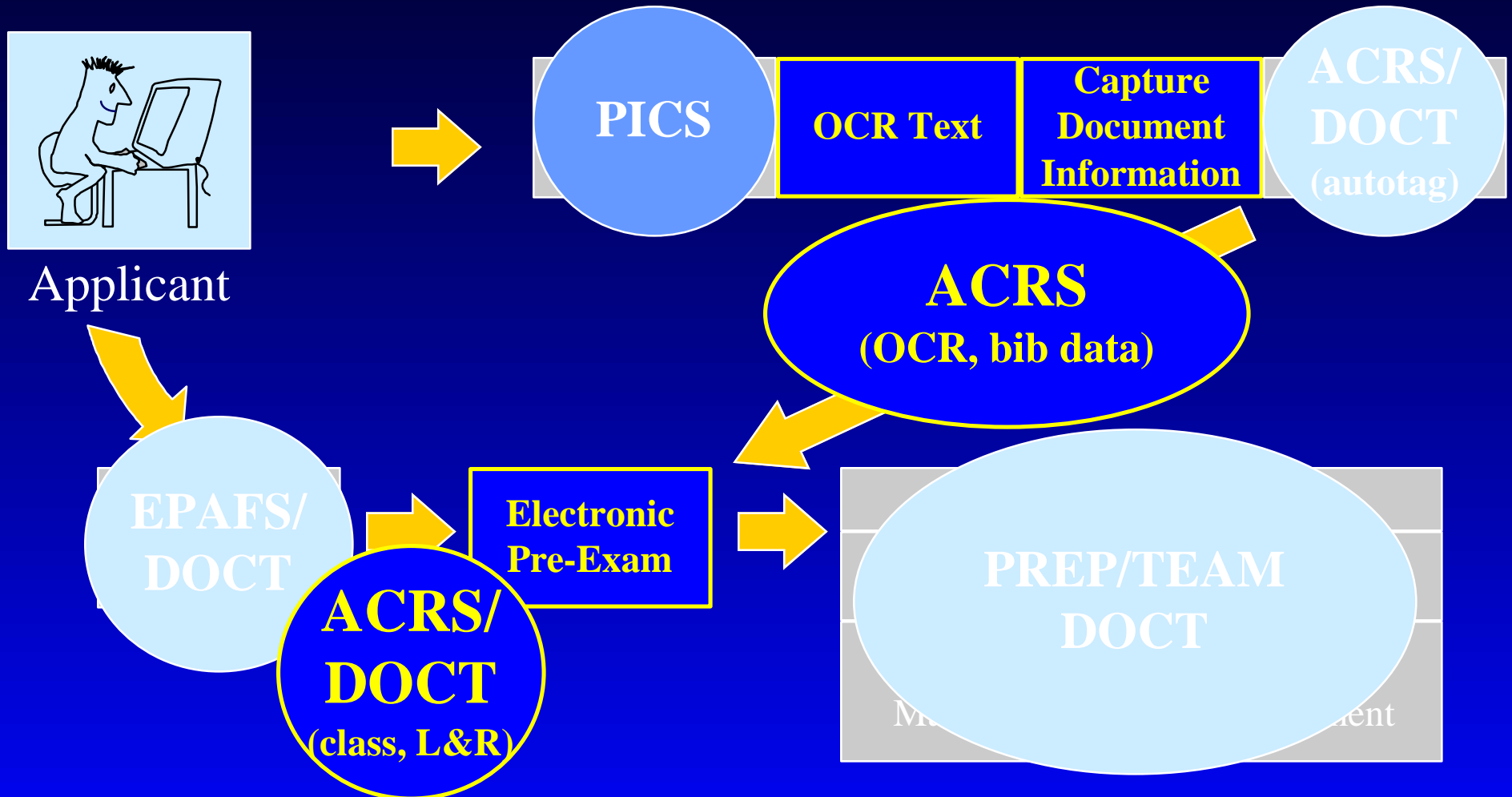
PICS Benefits

- Eliminates microfiche operations
- Images indexed and tracked
- Provides on-line access to images for Certification
- Provides on-line access to images for L&R screening and review

PICS Summary

- Initial paper document capture capability
- Tests processes
- Establishes input stream for paper document input to electronic management
- Establishes infrastructure for electronic management

Application Capture and Review System (ACRS)



What is ACRS ?

- “Application Capture and Review System”
- A production ICR system
- A modular, distributed, document text capture, indexing, and processing functionality

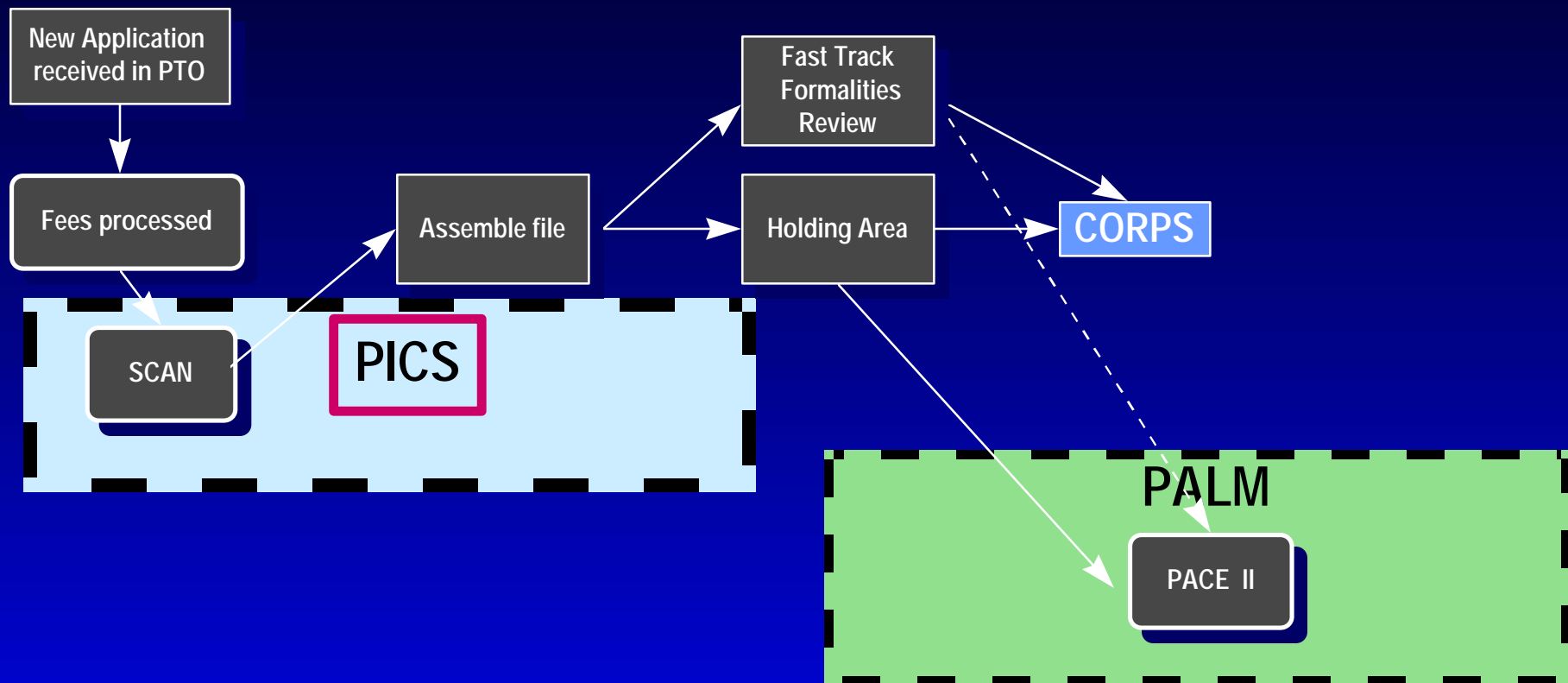
ACRS early production

- Each PICS scanning group will use ACRS to capture full text of new applications, and to read applicant-formatted bibliographic data and feed it to PALM
- Each PICS scanning group will use ACRS to capture indexing of sections of new patent applications, if readable

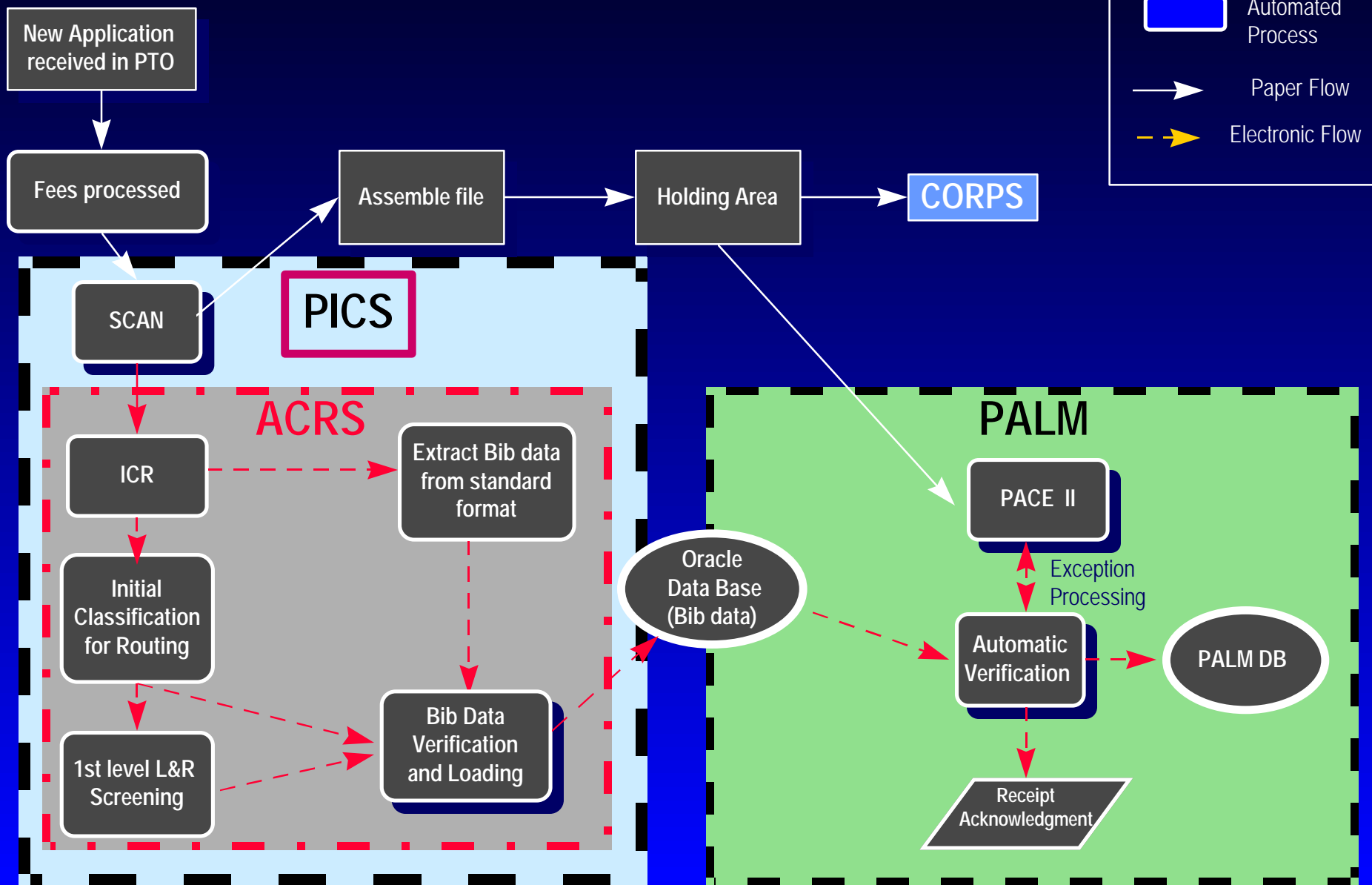
ACRS later production

- ACRS will perform automatic initial classification to the US class level for automatic routing to the correct Technology Center/Group
- ACRS will perform automatic first level L&R screening to designate the appropriate applications for L&R review

PICS and PACE/PALM



PICS, ACRS and PALM



ACRS: Capture Bibliographic Data

- Bibliographic data sheet
- ACRS OCRs the data sheet
- Validated against image
- Simple tagged format

Patent Application Data Entry Format Objectives

- To offer a flexible means to collect information for each individual patent application
- To provide a format that is easy to use
- To provide accurate application receipt information to our customers
- To provide a standard presentation for application information
- To expedite electronic capturing of information provided by customers

Tabular Format with Fixed Tags: Example

Correspondence Information

Correspondence Customer Number ::	123456789
Name Line One ::	Odin, Thor,
Name Line Two ::	Fafner & Associates
Address Line One ::	12345 Sturm Avenue
Address Line Two ::	Suite 3300
City ::	Vienna
U.S. State ::	VA
Country ::	USA
Postal or Zip Code ::	55555
Telephone ::	(703) 555-1212
Fax ::	(703) 555-2121
E-Mail ::	Odin@valhalla.com

Tag identifying the information at left margin followed by two colons. Information on same line with white space after the colons.

Templates for standard word processors available with the information packet.

Patent Application Data Entry Format Benefits

- Higher percentage of correct filing receipts mailed
- Notification of application receipt provided in a more timely manner
- Ensures information provided to Patent Office information systems is correct

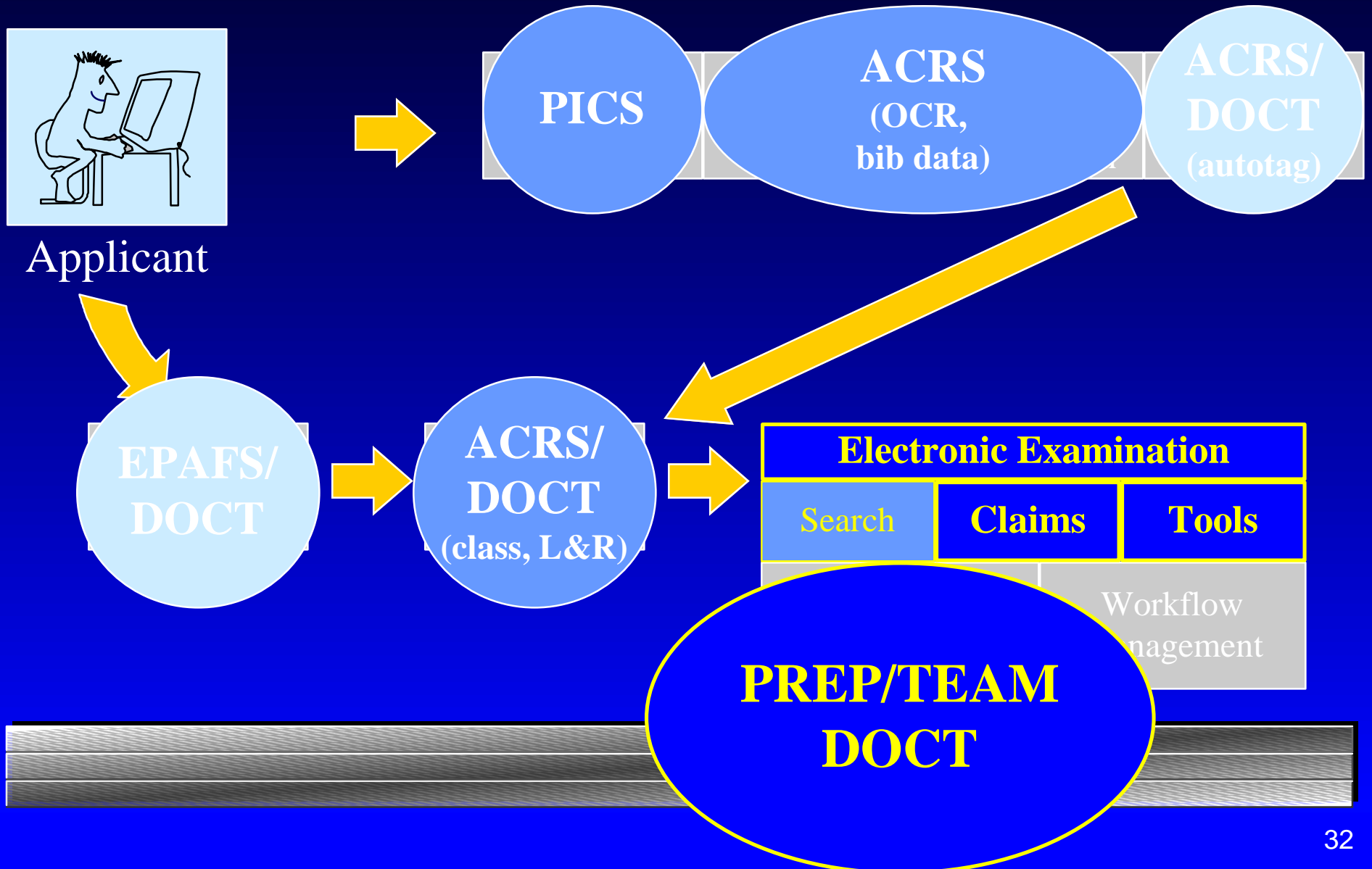
ACRS: Automated Presumptive Classification

- Goal is automated forwarding of applications to Technology Centers and Groups
- Currently testing of vendor products which classify based on text content
- Initial results are very accurate

ACRS Future

- PICS/ACRS technology will be used to support PCT automation efforts
- ACRS technology will be used later to validate electronic filings
- ACRS will later automate formalities review and other pre-examination functions

Tools for Electronic Application Management (TEAM)



Patent ReEngineering Prototype (PREP)

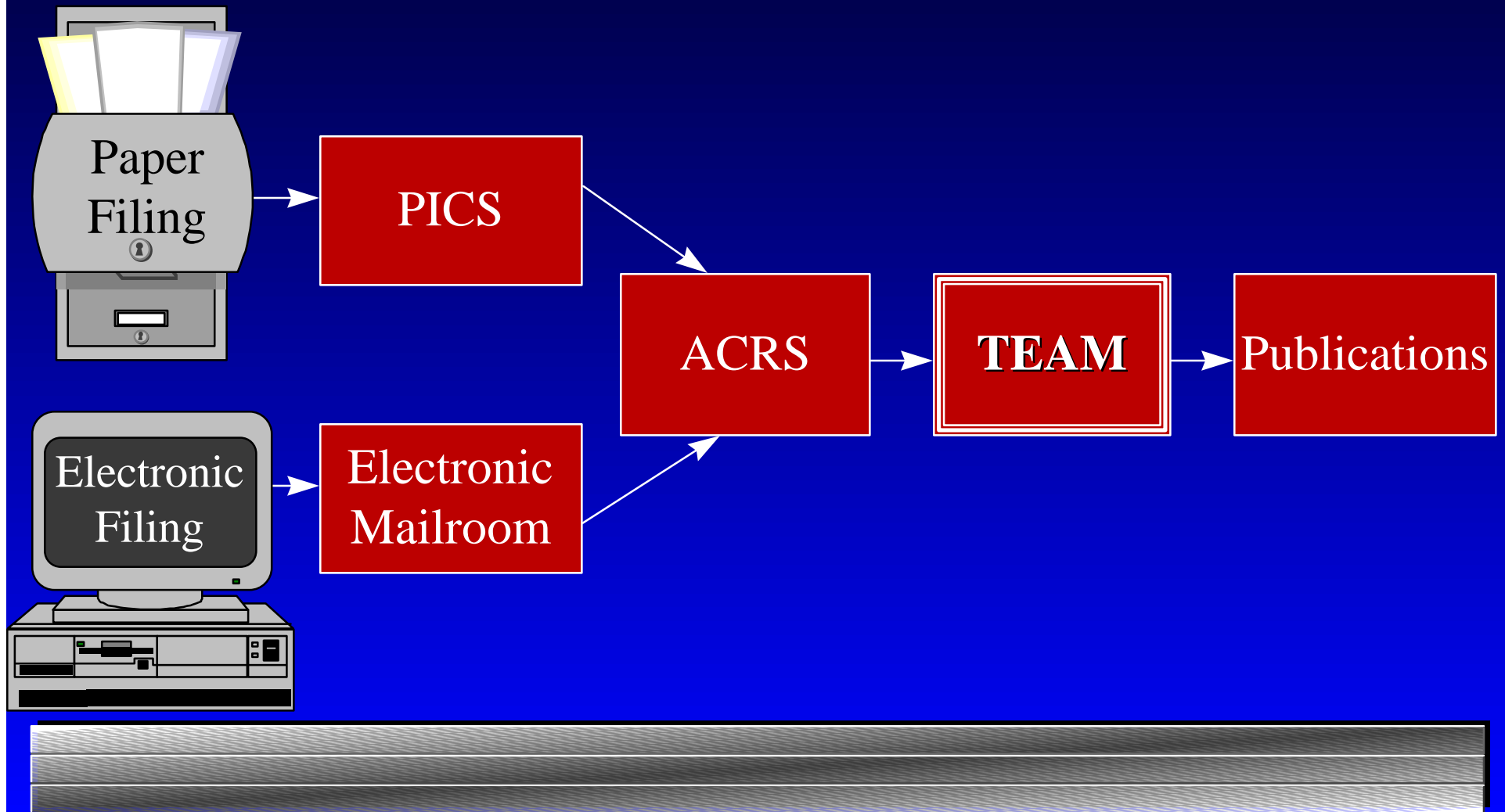
● PREP1

- Established viability of Electronic File Wrapper (EFW)
- First step towards electronic document correspondence
- Utilized available COTS products for rapid development
- Provided a starting point for development of examination processes utilizing an EFW

● PREP 2

- Electronic filing of Standard Generalized Markup Language (SGML) tagged documents

Tools for Electronic Application Management (TEAM)



Functions of TEAM

- Create An Electronic File Wrapper
- Automatic Amendment Entry
- Increase Efficiency of Workflow
- More Timely Office Actions
- Electronic Communications
- Automated Formatting for Publications

TEAM Components & Interfaces

TEAM

Search:

- Patent text & image (APS)
- Global Patents (GPI, PCT)
- Other Prior Art (NPL)
- Library Data (STIC)
- Biotech (ABSS)

Examiner Tools:

- Docketing
- Office Actions (OACS)
- Forms
- Claims Management
- EFW Management
- Search Results Management
- Auditing and Security
- Notes

Operations Data:

- Classification (CDS)
- Financial (RAM)
- Application Status (PALM)

TEAM: Claim Management

The screenshot shows a software window titled "Claim Tree" with a menu bar containing "File", "Claims", "Find", and "Help". The window is divided into two main panes. The left pane displays a hierarchical tree structure for patent claim 08/325463. The tree starts with "08/325463" at the top, followed by "1 - (Amended)". Under "1 - (Amended)", there is a list of sub-claims: "2 - (Amended)", "3 - (Canceled)", "4 - (Amended)", "5 - (Amended)", and "6 - (Rejected)". The right pane displays the full text of the selected claim, "Claim 1".

08/325463

- 1 - (Amended)
 - 2 - (Amended)
 - 3 - (Canceled)
 - 4 - (Amended)
 - 5 - (Amended)
 - 6 - (Rejected)

Claim 1: 1. An apparatus for exercising the abdominal and back muscles of a human exerciser comprising: a. a frame, said frame including a horizontal member, said horizontal member supported on each end thereof by a pair of legs, said horizontal member provided with a plurality of spaced apart apertures, at least one of said pair of legs being provided with an extension member, said extension member including a padded cross member; b. a seat member adapted to be supported on said horizontal member, said seat member provided with means to adjust its position along said horizontal member; c. a pivotable lever mounted on said horizontal member, said pivotable lever provided with means to adjust its position along said horizontal member; d. resilient means connecting said pivotable lever and said horizontal member wherein a force applied against said pivotable lever in a direction opposite said seat member is opposed by said resilient means; e. an eccentric connecting means pivotally connecting said padded cross member to said extension for allowing said padded cross member to be eccentrically rotated about an axis thereby allowing a raising or lowering of said padded cross member against the knees of an exerciser.

Claim 2: 2. The apparatus of claim 1 wherein said seat member is secured to said horizontal member by means of a pin, said pin passing through an aperture provided in a base of said seat member and through

Based on analysis of individual claim text extracted from SGML-based patent application document

TEAM: Summary View

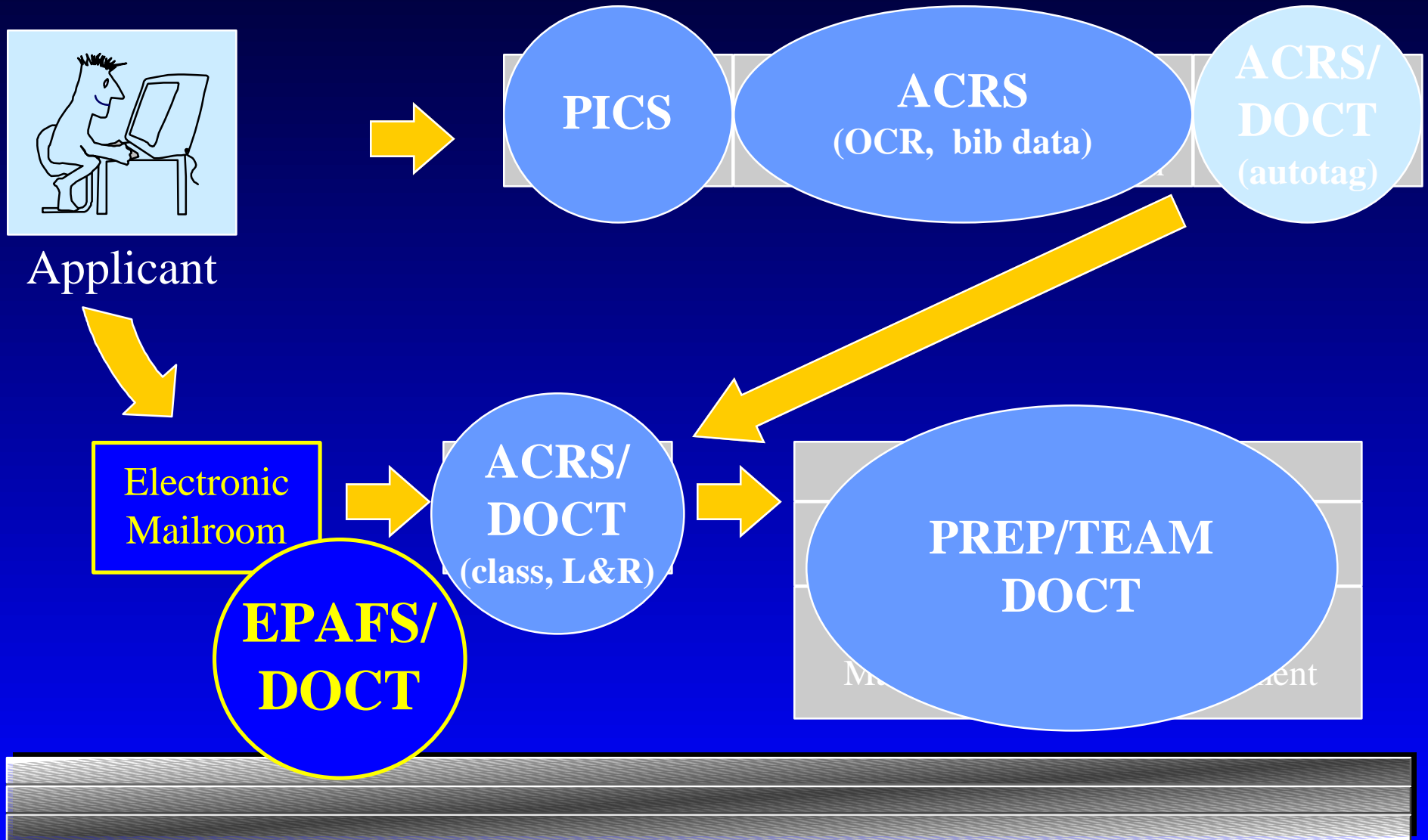
Summary Page		Suzuki		Patent Number: 5,491,497
				Date of Patent: February 13, 1996
[54]	MULTI WAY INPUT DEVICE	Number of Claims	10	
[73] Inventor	Kazutoshi Suzuki, Izaki, Japan	Number of Drawings	8	
[73] Assignee	Alps Electronic Co., Ltd., Tokyo, Japan	Primary Examiner	Jeffery Brier	
[21] Appl. No.	321,650	Attorney, Agent, or Firm	Guy W. Shoup; Patrick T. Bever	
[22] Filed	Oct. 11, 1994			
[30] Foreign Application Priority Data				
	Oct. 18, 1993 [JP] - 5-284089			
[51] Intl. Cl.	G09G 5/08; A63F 9/00			
[52] U.S. Cl.	345/157; 273/438			
[58] Field of Search	345/156, 157, 345/158, 169, 161, 163, 164, 166; 200/611, DIG. 23; 273/438			
[56] References Cited				
USF	4,754,388	12/1988	Matthews	
USF	4,910,803	3/1990	Brodsky	
USF	5,012,280	4/1991	Yasuda	
[57] Abstract	<p>According to the present invention there is provided an input device capable of making input in three-dimensional directions in conformity with the human's operating sense and easy to operate.</p> <p>The input device is provided with, in addition to first and second switches disposed on a substrate and a third switch disposed on the substrate in a direction in which it can be pushed in the surface direction of the substrate, a fourth switch capable of being touched axially.</p>			

User-configurable collection of basic file wrapper information. Based on SGML documents and standard data tables. Also demonstrates ability to collate data for publication.

Applicant/User Benefits of TEAM

- Increased filing ease and accuracy
- More timely and efficient processing
- More timely and accurate processing status reporting
- Increased legibility and quality in reproduction and printing
- More timely and accessible patent information

Electronic Filing/Electronic Mailroom



EPAFS History

- **National Performance Review**
- **Government Information Technology Services Board**
- **Implementations of Administration policy re encryption key recovery**
- **Demonstration projects including Key Recovery**
 - pilot project to learn from
 - PTO has 2 of 13
- **International user group**
 - national applications
 - PCT applications

Electronic Mailroom Security

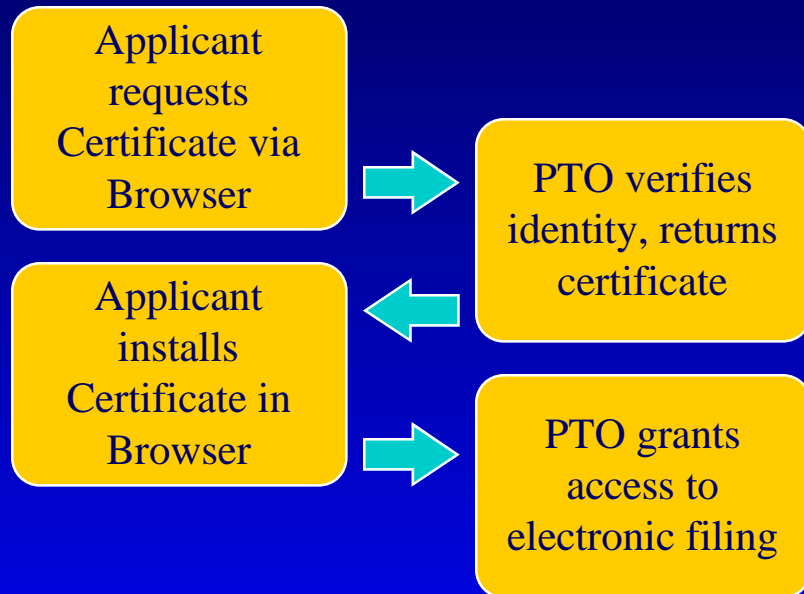
- Authentication: Both parties have positive identification of the other
 - Digital Certificates required
- Access Control: Information is available only to authorized parties
 - Digital Certificate controlled
- Confidentiality: No third party can read the transaction
 - Encryption
 - Secure Sockets Layer for sessions
 - Strong encryption for complete application
 - Strong encryption for storage
- Message Integrity: The message has not been tampered with
 - Secure digital hash
- Non-Repudiation: Neither party can deny involvement
 - Digital Signature
 - Acknowledgment

Electronic Mailroom Approaches

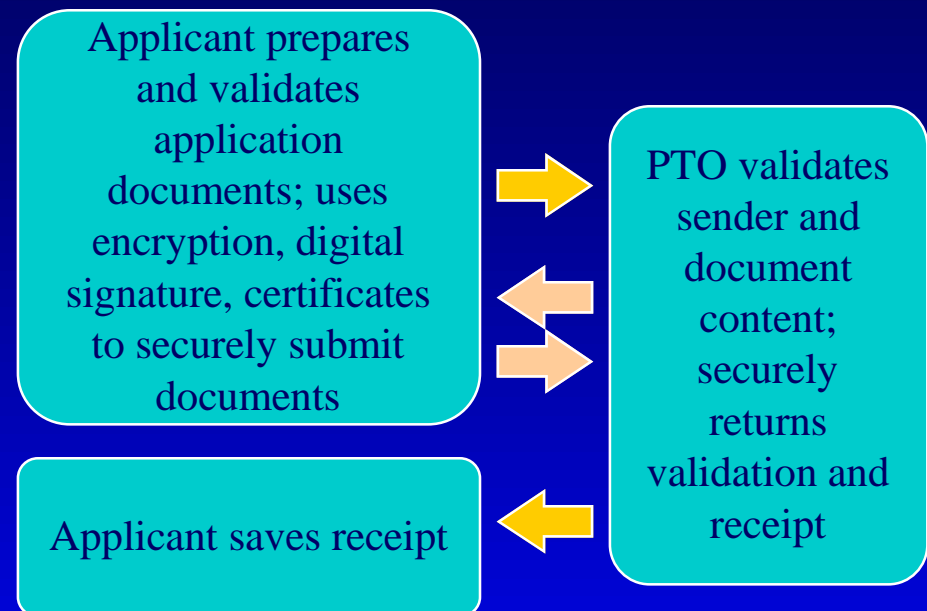
- EPAFS and DOCT
- Both using same underlying technologies
- Complementary approaches; both under investigation

Two-Step Process

Step 1: Register



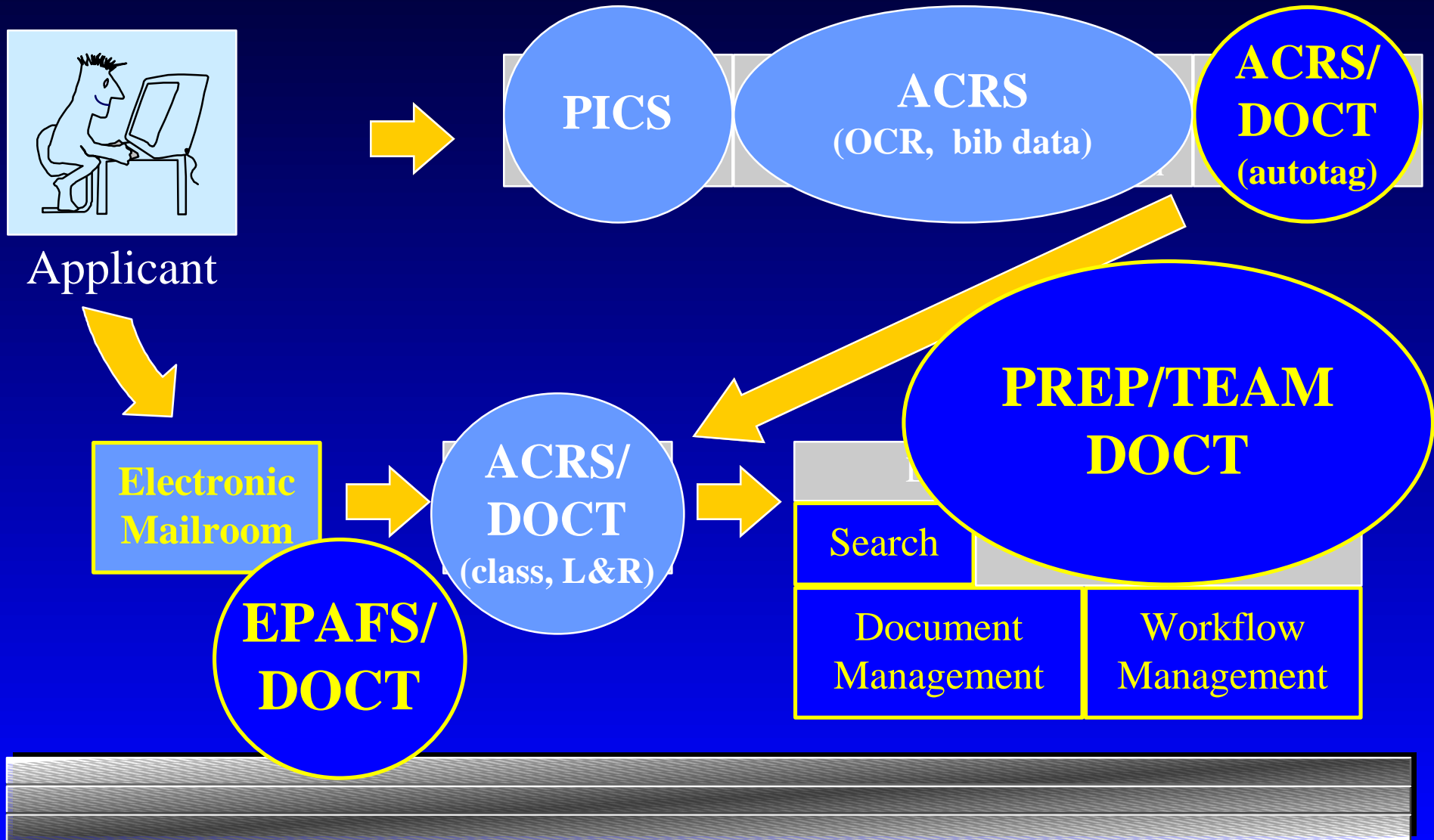
Step 2: File



Electronic Mailroom Summary

- Basic technologies available
- A variety of implementation approaches
- Legal and policy issues
 - National and international effort
- First implementation planned for Trademarks in October 1998
 - Certificate interoperability
 - Secure electronic transaction (SET)

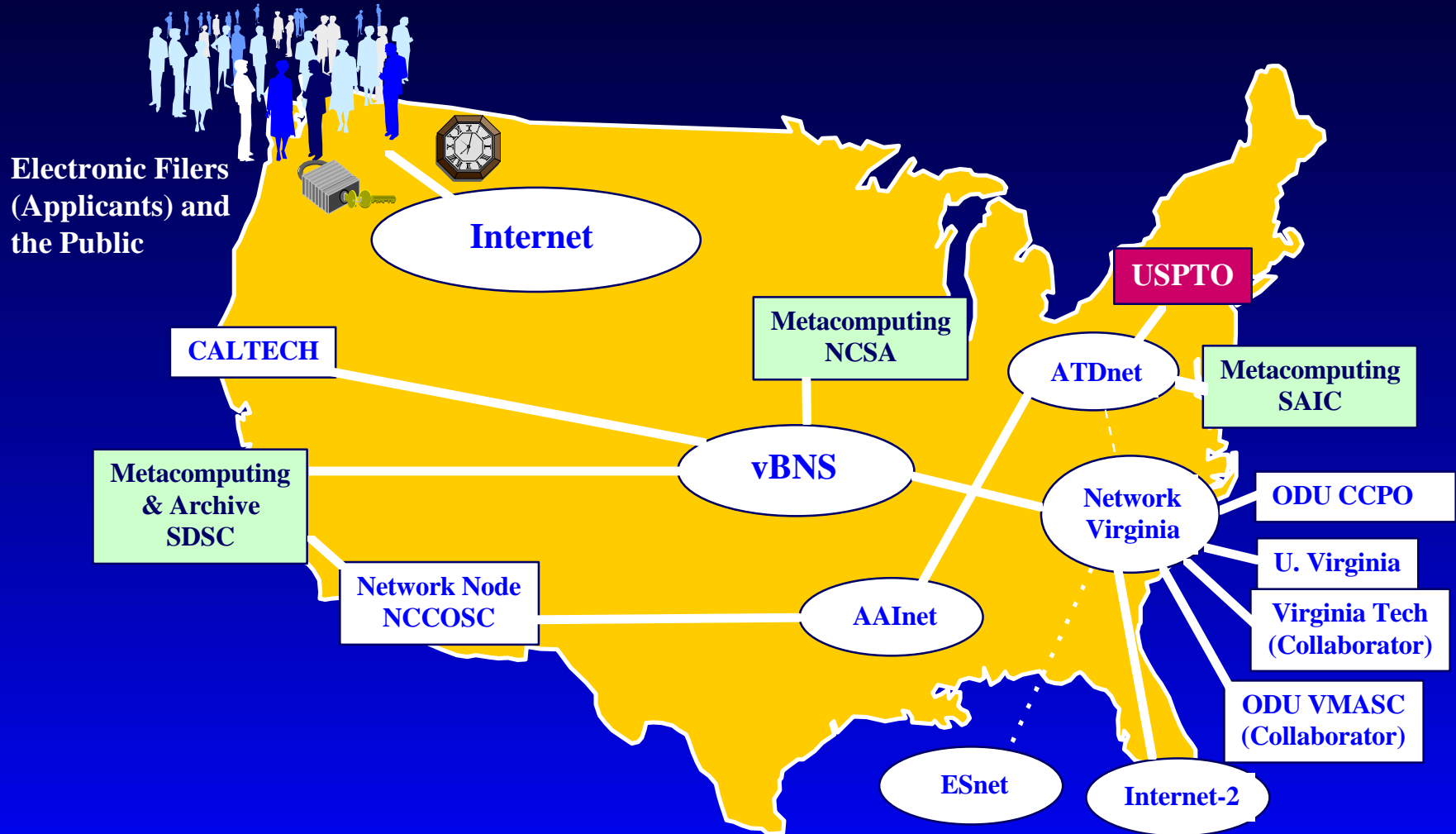
DOCT Research



DOCT History

- DARPA/PTO Metacomputing Testbed BAA
- Supercomputers at SDSC, NCSA, SAIC
- DOCT features:
 - testbed/laboratory: not a system
 - high-performance computers and communications links (the “metacomputer”)
 - bi-directional communications between “PTO” and “applicant”
 - Standards-based, working with complex scientific documents as objects

DOCT Infrastructure



DOCT is COTS-based

- SGML authoring and document review
- Secure electronic filing prototype based on certificates, digital signature, encryption, and secure date-time stamping
- SGML Document Management at the element level with automated amendment processing
- Data-driven workflow with attached agents to perform classification, pre-search, etc.

Authoring SGML Patent Application

The screenshot displays the Corel WordPerfect 8 interface for editing an SGML patent application. The title bar shows the file path: C:\PTD_Samples\Motorola\D007.sgm. The menu bar includes File, Edit, View, Insert, Format, Tools, Window, and Help. The toolbar contains various editing and formatting icons. The left-hand pane shows a hierarchical tree view of the document structure, including sections like patapp, utilapp, ident, docket, fni, crspdnc, docdate, declratn, uspec, abstract, title, backgnd, summary, drawdesc, desc, claims, drawing, nrdraw, and emi. The main text area is divided into three columns. The first column contains the 'Utility Specification Section' and the 'ABSTRACT' section, which describes a method and apparatus for reducing interference in a radio communication link. The second column contains the 'Title of Invention' and the 'BACKGROUND OF THE INVENTION' section. The third column contains the 'away' section, which describes the components of a communication system. The right-hand pane, titled 'Elements', shows a list of valid elements: </> p, artifact, b, bai, bioseq, and chem. The 'Valid Elements' section is selected, and the 'Auto-Insert' checkbox is checked. The status bar at the bottom indicates the current page is 5, line 9,49, position 4,3".

Utility Specification Section

ABSTRACT

(p-1) A method and apparatus is provided for reducing interference in a radio communication link from a central site (230) to a mobile unit (228) in a cellular communication system. The central site (230) includes a first (202) and a second (216) antenna which serve the geographic region (214) in which the mobile unit (228) is located. The radio communication link may be provided by communicating a signal in a first radio communication channel between the first central site antenna (202) and the mobile unit (228). Similarly, the radio communication link may be provided by communicating a signal in a second radio communication channel between the second central site antenna (216) and the mobile unit (228). A measure of interference in the first radio communication channel providing the radio communication link is determined. The radio communication link is switched, in response to the measure of interference being above a predetermined threshold, from the first to the second radio communication channel.

Title of Invention:

METHOD AND APPARATUS FOR REDUCING INTERFERENCE IN A RADIO COMMUNICATION LINK OF A CELLULAR COMMUNICATION SYSTEM

BACKGROUND OF THE INVENTION

(p-3) Communication systems take many forms. In general, the purpose of a communication system is to transmit information-bearing signals from a source, located at one point to a user destination, located at another point some distance

away. A communication system generally consists of three basic components: transmitter, channel, and receiver. The transmitter has the function of processing the message signal into a form suitable for transmission over the channel. This processing of the message signal is typically referred to as modulation. The function of the channel is to provide a physical connection between the transmitter output and the receiver input. The function of the receiver is to process the received signal so as to produce an estimate of the original message signal. This processing of the received signal is referred to as demodulation and detection.

(p-4) Two types of two-way communication channels exist, namely, point-to-point channels and point-to-multipoint channels. Examples of point-to-point channels include wirelines (e.g., local telephone transmission), microwave links, and optical fibers. In contrast, point-to-multipoint channels provide a capability where many remote stations may communicate simultaneously with a single central communication site (e.g., cellular radio telephone communication systems). These point-to-multipoint systems are also termed Multiple Access Systems (MAS).

(p-5) The use of modulation permits multiplexing, that is, the simultaneous transmission of signals from several message sources over a common channel. Also, modulation may be used to convert the message signal into a form less susceptible to noise and interference.

(p-6) For multiplexed communication systems, the system typically consists of many remote units (i.e. mobile communication units) which require active service over a communication channel for a short or discrete portion of the communication channel resource rather than continuous use of the resources on a communication channel. Therefore, communication systems have been designed to incorporate the characteristic of communicating with many remote units for brief intervals on the same communication channel. These systems are termed multiple access communication systems.

Authoring a Trademark AOU SGML Application

Corel WordPerfect - C:\PTO_SA\1\TRADEM\1\GARDEN\AOUSAM\1.SGM

File Edit View Insert Format Tools Window Help

Graphics

AllegationOfUse

- Allegation-Of-Use
- Version
- Name
- Applicant-Address
 - Street-Address
 - City
 - State
 - Country
 - Zip-Code
 - Internet-E-Mail-Address
- Telephone-No
- Mark
 - Mark
 - Mark
 - Mark
 - BOX CONTENT
- Serial-Number
- PTO-Provided-Req-To-Divide-App
- PTO-Provided-AOU-Registrat-Req
 - Goods-Services-In-Use
 - Goods-Services-Deleted
- Use-Dates
- Applicant-Mode-Of-Use-Stmt
- Type-Of-Commerce
- Fee-Amount
 - Deposit-Account-Number
- PTO-AOU-Declaration
- Signature
- Signatory-Name
- Signatory-Position
- Signatory-Telephone-No
- Date-Signed


ALLEGATION OF USE FOR INTENT-TO-USE

Applicant Name:

Peat Moss
123 Lotus Street
Arlington, VA
USA 22202
pete@aol.com
Phone: 703-305-8988

MARK

Garden Gate



Serial Number: 76123456

Request to Divide

Applicant wishes to proceed to publication or registration with certain goods/services on or in connection with which it has used the mark in commerce and retain an active application for any remaining goods/services; divisional application and fee are required. 37 C.F.R. 2.87.

AOU Registration Request

Applicant requests registration of the above-identified trademark/service mark in the United States Patent and Trademark Office on the Principal Register established by the Act of July 5, 1946 (15 U.S.C. 1051 et seq., as amended). Three specimens per class showing the mark as used in commerce and the prescribed fees are submitted with this statement.

Date of First Use Anywhere: 04/05/1997
Date First Used in Commerce: 04/05/1997
Mode of Use: services
Type of Commerce: interstate
Fee Paid (\$): 100

AOUSAM\1.SGM

AB Insert Pg 1 Ln 352 Pos 1"

View of SGML Patent Application

The screenshot displays the SoftQuad Panorama PRO software interface, which is used for viewing and navigating SGML patent applications. The interface is divided into several panes:

- Table of Contents (Left Pane):** Lists the document sections: Identification, Abstract of Disclosure, Background of the Invention, Summary of the Invention, Detailed Description, Claims, and Drawings. The 'Background of the Invention' section is currently selected.
- Main Text Area (Center):** Displays the text of the patent application. The visible text includes:

communication links between the central communication site and mobile communication unit when the mobile communication unit is located within a region served by more than one antenna operating in the same communication channel band.

Summary of the Invention

P-30

A method and apparatus is provided for reducing interference in a radio communication link from a central site to a mobile unit in a cellular communication system. The central site includes a first and a second antenna which serve the geographic region in which the mobile unit is located. The radio communication link may be provided by communicating a signal in a first radio communication channel between the first central site antenna and the mobile unit. Similarly, the radio communication link may be provided by communicating a signal in a second radio communication channel between the second central site antenna and the mobile unit. A measure of interference in the first radio communication channel providing the radio communication link is determined. The radio communication link is switched, in response to the measure of interference being above a predetermined threshold, from the first to the second radio communication channel.

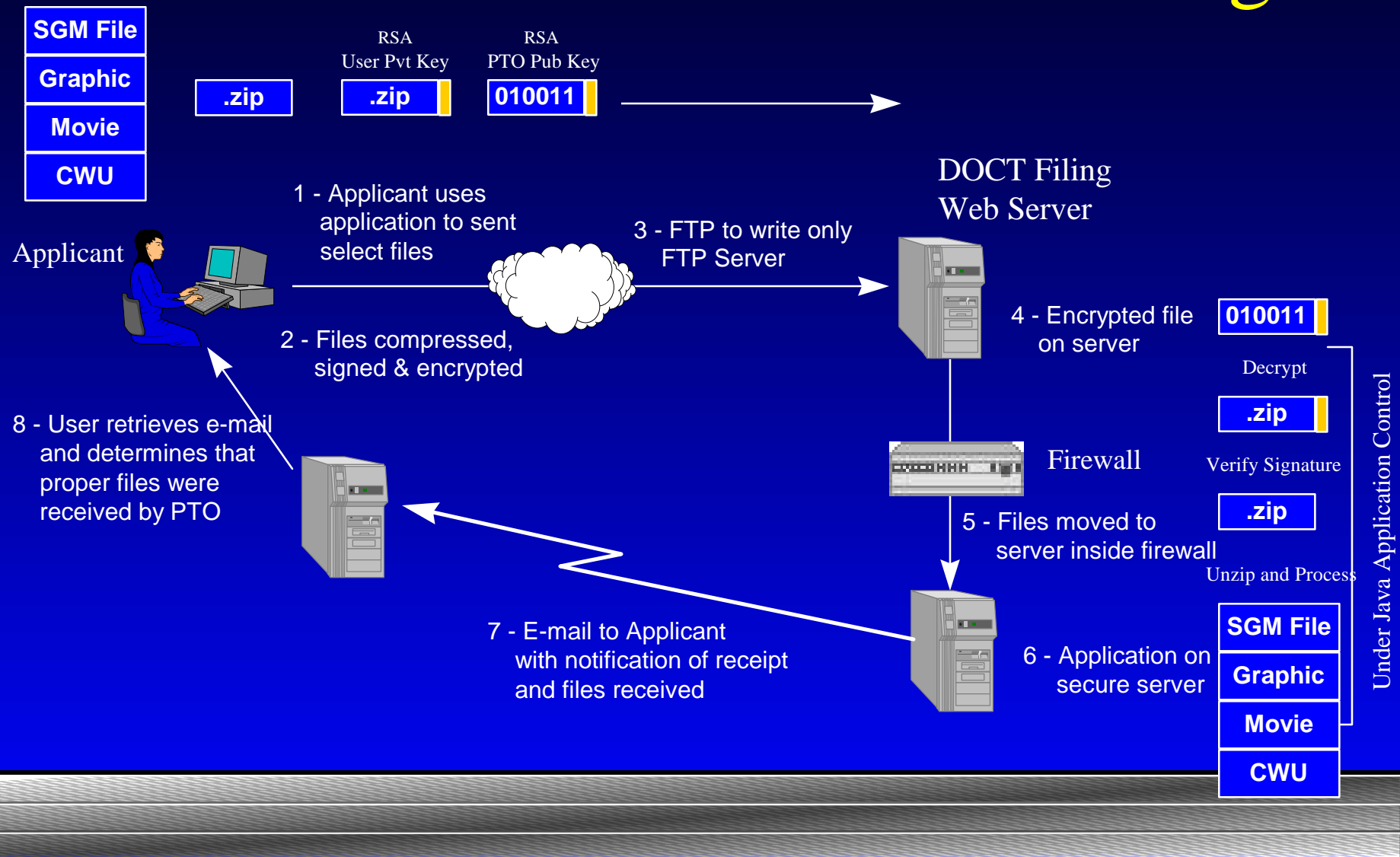
Brief Description of the Drawings

FIG-1 A and **FIG-1** B are block diagrams of a central communication site antenna pattern. **FIG-1** A showing a preferred embodiment central communication site antenna pattern. **FIG-1** B showing a preferred embodiment central communication site antenna pattern.

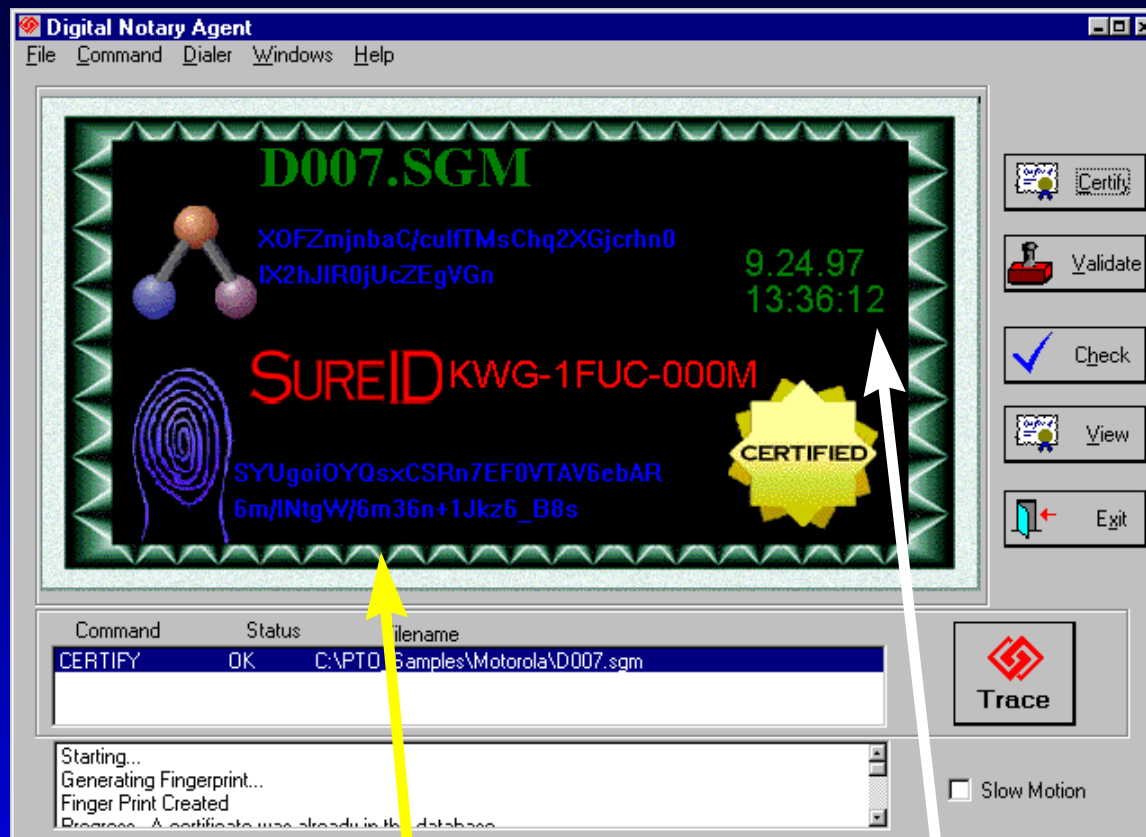
Detailed Description
- Drawings (Right Pane):** Displays three diagrams:
 - FIG. 2A:** A diagram showing a central communication site (230) with multiple antennas (210, 212, 214, 216, 218, 220, 222, 224, 226, 228) and a mobile unit (200) receiving signals from the antennas.
 - FIG. 2B:** A diagram showing a central communication site (230) with multiple antennas (210, 212, 214, 216, 218, 220, 222, 224, 226, 228) and a mobile unit (200) receiving signals from the antennas.
 - FIG. 1A and FIG. 1B:** Block diagrams of a central communication site antenna pattern. FIG. 1A shows a preferred embodiment central communication site antenna pattern. FIG. 1B shows a preferred embodiment central communication site antenna pattern.

The interface also includes a status bar at the bottom showing the current file path: C:\PTO\Samples\Motorola\0007.sgm, and a taskbar with various application icons.

DOCT: Secure Electronic Filing



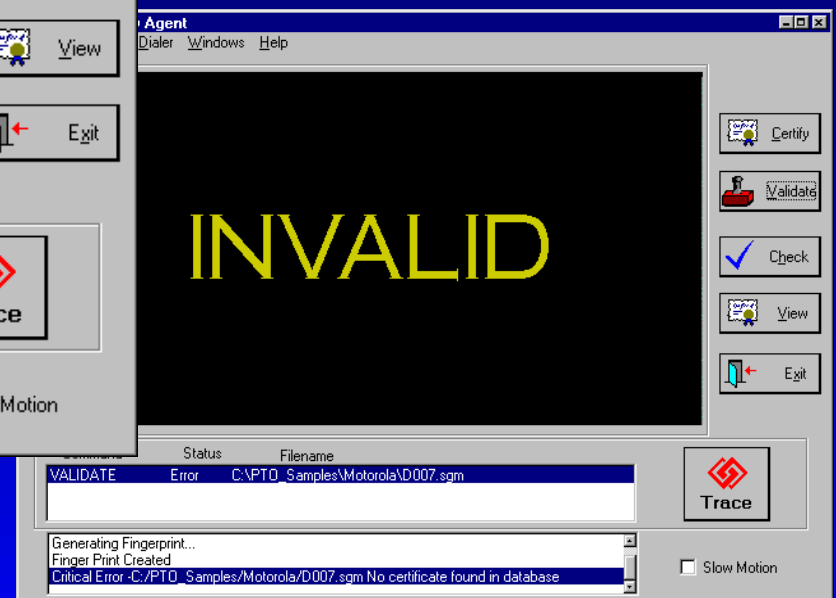
DOCT: Use of Secure Date-Time Stamp



Document Fingerprint

Date & Time

Validation results if a single character changes



DOCT: Secure Electronic Filing

New Application Form

Help

Applicant Information

First Name: Douglas

Middle Name: Kent

*Last Name: MOSIER

Phone Number: (703)-610-8849

*E-Mail Address: douglas.k.mosier@cpmx.saic.com

*Patent Related Document(s):

D:\DOCT\Applications\GOLFBA~1\Fig15
D:\DOCT\Applications\GOLFBA~1\Fig1
D:\DOCT\Applications\GOLFBA~1\Fig2
D:\DOCT\Applications\GOLFBA~1\Fig3
D:\DOCT\Applications\GOLFBA~1\Fig4

Browse ... Remove File

Patent File Information

*Applicant ID Number: 12

Attorney Docket Number: 345678

The Applicant ID Number is contained in the E-Mail return receipt received from registering via the PTO Electronic File Submission Web page. The required fields are denoted with the asterisk[*].

Submit Application

Load Form Data

Clear Form Data

Exit Form

Please enter required data before Submitting.

9/19/97

Applications are Queued in the Electronic Mailroom

Domain Information [198.202.127.11]	Class Registry	Instance Registry	Central Log	User Admin	Queue Monitor	Legion Statistics	NQE Statistics	Op
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New Application Queue:

0

Backup Applications:

0000000001.tar.gz
0000000002.tar.gz
0800132407.tar.gz
0802132411.tar.gz
0800132412.tar.gz
0800132414.tar.gz
0800132413.tar.gz
0803132411.tar.gz
0804132411.tar.gz

16

Current Applications:

0800132411.sgm
rm.err
D011_readme.txt
FIG1.bmp
FIG2.bmp
FIG3.bmp
FIG4.bmp
temp
FIG5.bmp

11

All Queues:

SPE's
Backup Applications
Current Applications
New Applications
Applicant Response
Extension
Examiner
Amendment
Search Results

Queue Items:

Queue Name:

Queue Path:

Add	Reconnect	Refresh
Remove		

Automated E-Mail Receipts

Admin@doct.itsl.com

Wednesday, September 24, 1997 2:10:13 PM
Message

From: Admin@doct.itsl.com,Internet

Subject:

Bcc: Rick Klobuchar

The US Patent and Trademark Office received an electronically-filed patent application from Richard Klobuchar on 09/24/97 14:06:28 EDT.

The following files were included in the submission:

D007.ctf
D007.sgm
FIG1A&B.bmp
FIG2A&B.bmp
FIG3A&B.bmp

Received: from cphub.mail.saic.com (cphub.mail.saic.com [139.121.95.10]) by fcmal.amsec.com
Sep 1997 18:08:53 GMT
Received: from rommel.saic.com by cpmx.mail.saic.com; Wed, 24 Sep 97 11:09:29 -0700
Received: from Macemaster.issg.saic.com/149.8.27.44 by rommel. (SML-8.6/SML-SVR4) id OAA0
-0400

Electronic Filing Receipt

Data Validation Receipt

Validation Mechanism Receipt

Unsent Message

From: Rick Klobuchar
admin@doct.itsl.com,Internet

Subject: Validation Mechanism Receipt

To: Rick Klobuchar

Cc:

Your electronically-filed patent application package has been reviewed.

Title: METHOD AND APPARATUS FOR REDUCING INTERFERENCE IN
A RADIO COMMUNICATION LINK OF A CELLULAR COMMUNICATION
SYSTEM

Inventor: Reuven Meidan

Docket Number: CE02285R

It has been given the following application number: 08/304750.

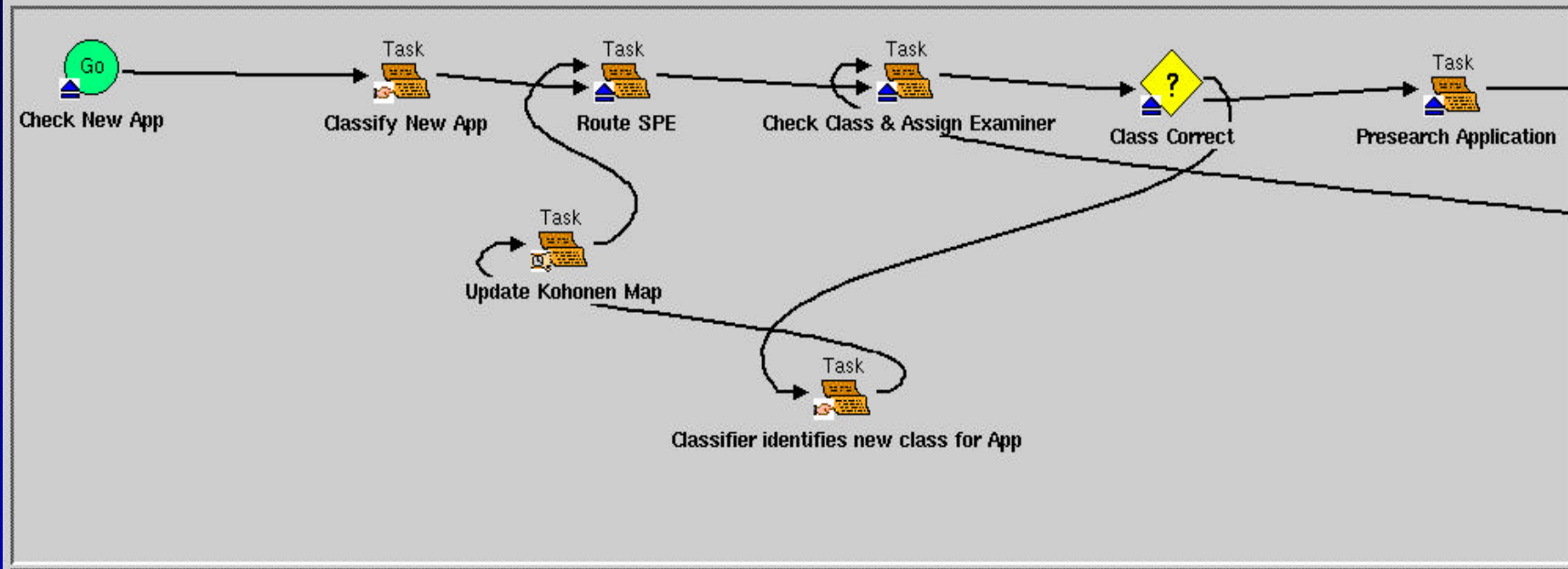
Please use this number in all correspondence referring to this application.

Your graphics files have been reviewed. Below is a list of the file names
and the outcome of each review. A REJECT means that the file could not
be viewed and should be resubmitted in an amendment.

FIG1A&B.bmp - ACCEPTED
FIG2A&B.bmp - ACCEPTED
FIG3A&B.bmp - ACCEPTED

DOCT: Data-Driven Workflow with Agents

Case: sn0800132414



Agents for classification, examiner assignment support, examination pre-search, automated amendment processing, etc.

DOCT: Java-based Agents

Review

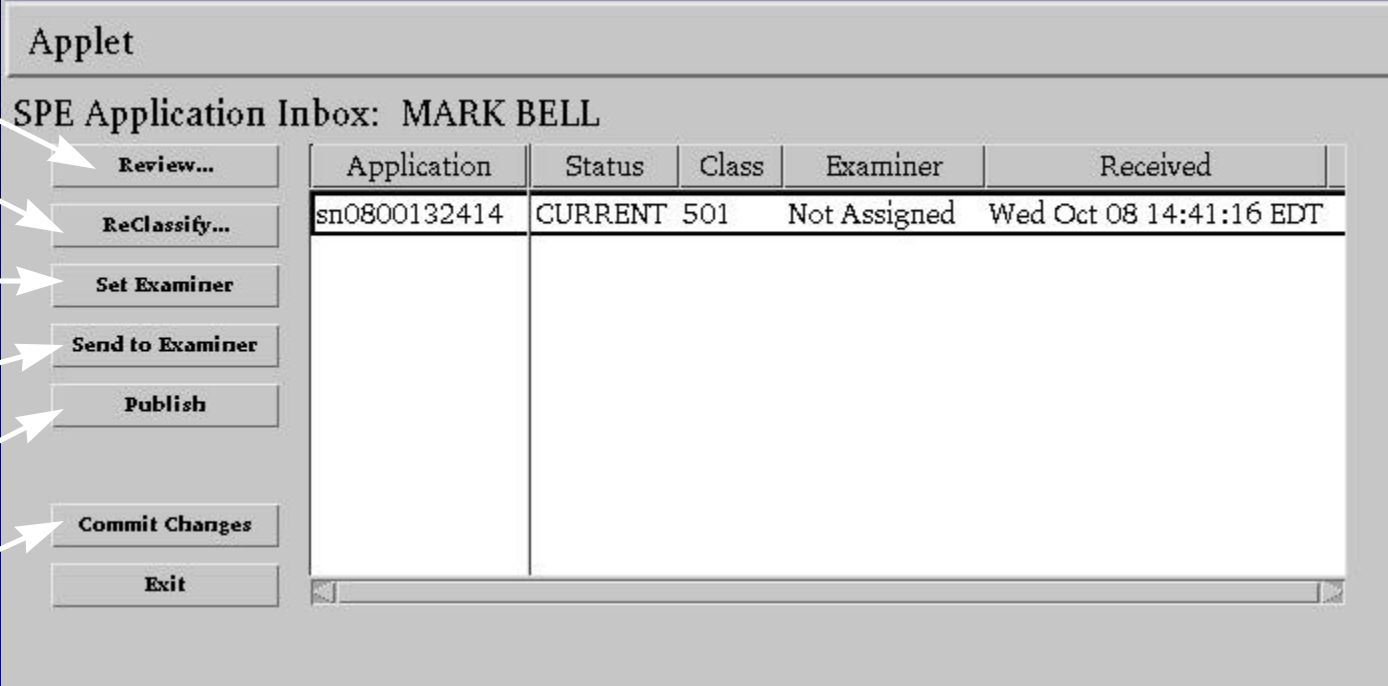
ReClassify

Assign

Route

Publish

Commit

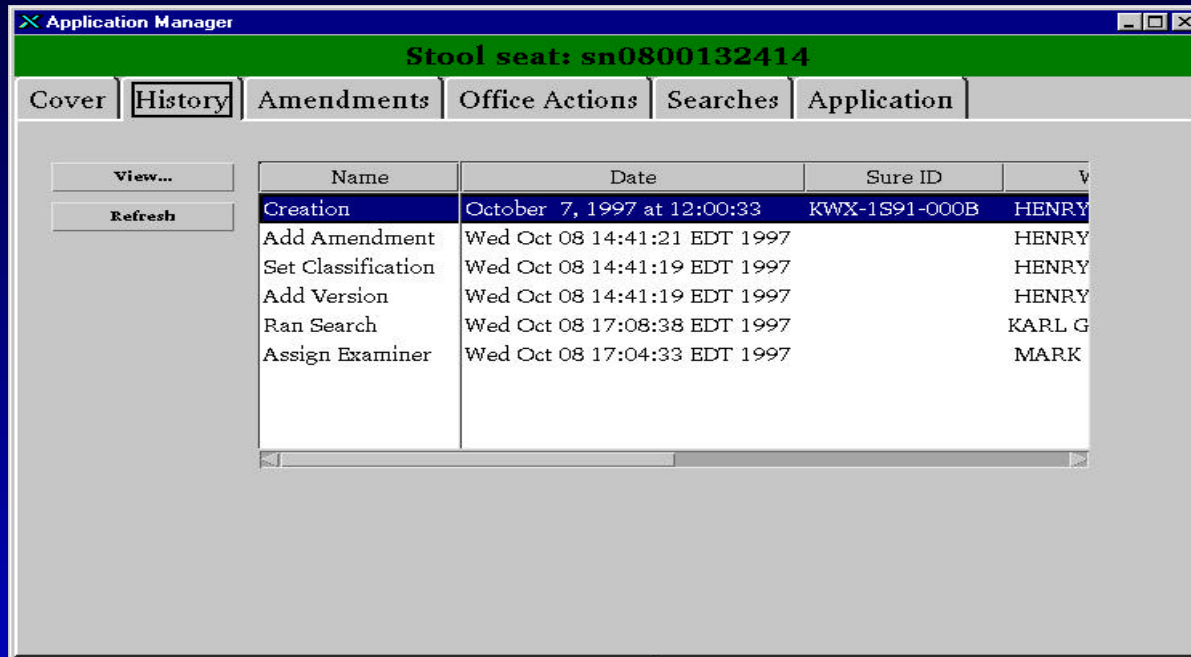


The screenshot shows a Java applet window titled "Applet" with a subtitle "SPE Application Inbox: MARK BELL". On the left is a vertical list of buttons: "Review...", "ReClassify...", "Set Examiner", "Send to Examiner", "Publish", "Commit Changes", and "Exit". Arrows point from the labels "Review", "ReClassify", "Assign", "Route", "Publish", and "Commit" to these respective buttons. To the right of the buttons is a table with the following data:

Application	Status	Class	Examiner	Received
sn0800132414	CURRENT	501	Not Assigned	Wed Oct 08 14:41:16 EDT

After presumptive classification, the application is routed to the SPE in charge of the relevant Art Group for assignment to an examiner

DOCT: SGML Document Management



Documents managed in an Electronic File Wrapper (EFW) based on an SGML-based Document Management System.

- ✦ Each application has an EFW which contains:
 - A cover with all high level data on the application
 - Surety Date/Time-stamped historic record of all actions performed and
 - Amendments to the application
 - Office Actions created
 - Searches and search results
 - Application versions

Demonstrations (Alexandria Room)

10:00 - 12:00 DOCT Demonstrations

1:00 - 2:30 PICS/ACRS/PAIR/EPAFS Demonstrations

2:30 - 4:00 DOCT Demonstrations

DOCT Morning Schedule (approx.)

10:00 Introduction to DOCT and Applicant Authoring

10:30 Secure Electronic Filing and Electronic Mailroom

11:00 Workflow and Application Management

11:30 Search & Retrieval

Afternoon schedule: same order (compressed)

Summary

- USPTO is actively working towards fully-electronic operations, including a fully-electronic dialog with applicants
- Initial systems and pilot projects are under way
- Research efforts will identify useful technologies and approaches
- Legal, rules, and incentives issues must be resolved